

Tomer Chen

Full-Stack Developer

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Professional Summary

Full-stack developer transitioning from biotechnology with 4 years of Python experience. Experienced in building scalable and efficient backend solutions using .NET, SQL, and RESTful APIs. Adept at problem-solving and implementing robust software architectures to handle complex data. Passionate about leveraging modern technologies to drive performance and system efficiency

Skills

Front-End: HTML, CSS, JavaScript, TypeScript, React.js, Tailwind, Bootstrap, WPF.

Back-End: Python, C#, ASP.NET, Node.js, RESTful API Development, SQL, NoSQL (MongoDB), JWT

Tools: Git, VS-Code, Visual Studio, Azure

Soft Skills: Fast learner, Multitasking, Technical Writing & Documentation, Problem-Solving, Project Management, Teamwork.

Projects

Personal Projects

TinyGym – React Fitness Tracker

- Developed a fitness tracker using React, JavaScript, and Bootstrap, integrated with a public API (MockAPI).
- Implemented secure user authentication with encrypted passwords and email-based password recovery via EmailJS.
- Enabled session creation, duplication, and modification with date-based tracking for progress monitoring.

Portfolio Website

- Built and deployed a responsive portfolio using Vite React, TypeScript, and Tailwind CSS.
- Showcases projects, skills, and experience with an interactive review system stored in a free database.
- Hosted on Render with an optimized UI for performance and accessibility.

Universe Clicker

- Developed an interactive clicker game using React, TypeScript, and Tailwind CSS.
- Implemented real-time feedback and dynamic user interactions for an engaging experience.
- Deployed on Render, demonstrating front-end expertise and smooth performance.

HacherU Course

WPF Final Project

- Developed a gallery of WPF applications showcasing multiple applications, including games and utilities like a task prioritizer and store inventory system.
- Applied Object-Oriented Programming (OOP), LINQ, and JSON APIs for seamless integration and a dynamic user interface.
- Demonstrated strong skills in creating interactive and dynamic user experiences through multiple WPF-based projects

Full-Stack Final Project

- Built a full-stack social media platform using React.js for the Front-End and ASP.NET for the Back-End API.
- Integrated JWT authentication, Entity Framework, SQL, and deployed the API on Azure and front-end on Render.
- Features include user registration, post interaction, profile management, groups, notifications, and moderation tools.

Work Experience

Senior Scientist, Head of RNA Therapeutics

2023-Present

ArtBioScience

- Automated data processing workflows, reducing file analysis time by 80%.
- Developed Python-based RNA analysis software, eliminating outsourcing costs and optimizing data analysis.
- Created automation tools for consistent and efficient data presentation.

Scientist, RNA Therapeutics department

2021-2023

ArtBioScience

- Built Python programs to optimize mRNA synthesis, increasing yields by 20%-100%.
- Reduced external optimization costs through in-house software solutions.

Scientific Consultant

2021

Weizmann Institute of Science

- Provided expertise in organization experimental design and data analysis.

Postdoctoral researcher

2019-2021

Weizmann Institute of Science

- Led a research team developing drought-resistant plants using genetic engineering.

Education

Courses & Certifications

HackerU - Dot Net Full-Stack Developer

2023-2024

SoloLearn - Python Developer Certification

2023

SoloLearn - Python Core Certification

2022

Academic

Ph.D. in Biotechnology - Weizmann Institute of Science

2014-2019

Thesis: Singlet Oxygen Synthesis Under Osmotic Shock Conditions

M.Sc. in Biotechnology - Bar-Ilan University

2011-2014

Thesis: Genetic Resistance of Cucumbers Against Downy Mildew

Professor Yehuda Halevy Prize for Exceptional Research

B.Sc. in Biotechnology, Psagot Program for Direct MSc Studies - Bar-Ilan University

2010-2011

Research Project: Identification Of Resistance Genes in Tomato Using Genetic Markers

Languages

English (Native) Hebrew (Native)